ABSTRACT

[0065] The invention is directed to an arrangement for stabilizing the radiation emission of a plasma, particularly for generating extreme ultraviolet (EUV) radiation. The object of the invention, to find a novel possibility for generating short-wavelength radiation which is stable over time from a plasma generated by energy input into a target jet, in which intensity variations due to altered coupling of excitation radiation into the target jet are minimized, is met according to the invention in that measuring devices are provided for successive detection over time of deviations of at least one of the directions of the target jet or the energy beam from an intersection point of the two directions that is provided as an interaction point, wherein the measuring devices have output signals which are suitable as regulating variables for the orientation of the directions on the interaction point, and actuating elements are provided for adjusting and tracking at least one of the directions of either the target jet or the energy beam depending on the output signal of the measuring devices in the manner of a control loop.